

CLAIMS

What is claimed is:

1. A battery for use in various temperature environments, comprising:
 - a. at least one electro-chemical cell; and
 - b. a sleeve disposed around the lithium ion cell, the sleeve comprising a material that acts as an insulator at relatively low temperatures and that acts as a conductor at relatively high temperatures.
2. The battery of Claim 1, wherein the electro-chemical cell is a lithium-ion cell
3. The battery of Claim 1, wherein the sleeve comprises a phase change material.
4. The battery of Claim 1, wherein the cell comprises a lithium-ion cell.
5. A battery for use in various temperature environments, comprising:
 - a. a plurality of lithium-ion cells, the plurality of lithium-ion cells being arranged in a close packing arrangement; and
 - b. a sleeve disposed around the lithium ion cells, the sleeve comprising a material that acts as an insulator at relatively low temperatures and that acts as a conductor at relatively high temperatures.
6. The battery of Claim 5, wherein the sleeve comprises a phase change material.
7. A jacket for a battery for facilitating battery use in various temperature environments, the jacket comprising a sleeve shaped so as to define a cavity that is complementary in shape to a battery, the sleeve comprising a material that acts

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as an insulator at relatively low temperatures and that acts as a conductor at relatively high temperatures.

8. The battery of Claim 7, wherein the sleeve comprises a phase change material.

FOUO 0306T3260

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